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NOTICE OF ALLOWANCE AND FEE(S) DUE

57726 7590 12/24/2009 MILLER, MATTHIAS & HULL ONE NORTH FRANKLIN STREET SUITE 2350

CHICAGO, IL 60606

EXAMINER				
LYONS, MICHAEL A				
ART UNIT	PAPER NUMBER			
2877				

DATE MAILED: 12/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,250	11/21/2006	Timothee, Pol, Jean Toury	28944/50019	9696

TITLE OF INVENTION: DEVICE AND METHOD FOR THE NON-INVASIVE DETECTION AND MEASUREMENT OF THE PROPERTIES OF A MEDIUM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/24/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GARAT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			papa	ers. Each additional	paper	g can only be used for icate cannot be used for , such as an assignment ding or transmission.	domestic mailings of the or any other accompanying at or formal drawing, must
ONE NORTH F SUITE 2350	TTHIAS & HULI RANKLIN STREE		Lbe	Cer	tificate	of Mailing or Transi	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
CHICAGO, IL 6	50606						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/568,250 TITLE OF INVENTION MEDIUM	11/21/2006 N: DEVICE AND MET		Timothee, Pol, Jean Toury NVASIVE DETECTION		MENT	28944/50019 OF THE PROPERTI	9696 ES OF A
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/24/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
LYONS, M	IICHAEL A	2877	356-491000				
1. Change of correspondence address or indication of "Fee Address" (27 TeR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address from PIO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PIO/SB/122 intached. ☐ "Fee Address" indication (or "Fee Address" Indication form properties and the pattern of the pat							
(A) NAME OF ASSI	GNEE	ified below, no assignee pletion of this form is NO	(B) RESIDENCE: (CITY	and STATE OR C	OUNT	RY)	up entity Government
4a. The following fee(s) are submitted: Issue Fee A check is enclosed. A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form Advance Order - # of Copies Overgayment, to Depoit Account permitted The Director is hereby authority			d. Form PTO-2038	is atta	ched.		
	ns SMALL ENTITY state	as. See 37 CFR 1.27.	b. Applicant is no lon				
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.	iic upprieditt, a regi	mercu :	money or agent, or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name			Registration N				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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	RANKLIN STREET		ART UNIT	PAPER NUMBER		
SUITE 2350 CHICAGO, IL 60606			2877			
CHICAGO, IL 60	9000		DATE MAILED: 12/24/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 378 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 378 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/568,250	TOURY ET AL.
Examiner	Art Unit
MICHAEL A. LYONS	2877

-- The MALING DATE of this communication appears on the cover sheat with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. A This communication is responsive to amendment filed 08 December 2009.
- The allowed claim(s) is/are 1-6,8-14 and 16-29.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. T Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)

of Biological Material

- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- 5.

 Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ___

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DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on December 8, 2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of United States Patent 7,450,237 has been reviewed and is accepted. The terminal disclaimer has been recorded

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 9, the word "comprising" is changed to "comprises" in line 19 to correct a grammatical error.

Allowable Subject Matter

Claims 1-6, 8-14, and 16-29 are allowed in view of the prior art.

The following is an examiner's statement of reasons for allowance:

As to claim 1, the prior art of record, taken either alone or in combination, fails to disclose or render obvious a device for noninvasive detection of the properties of a medium by interferometry, the device comprising, among other essential features, means for measuring variations in the phase of the light beam during its passage through the region to be probed, these means comprising an interferometer with means for servocontrolling the path lengths of the

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reference beam and probe beam, the servocontrolling being up to a cutoff frequency, with the means also having a signal sampling frequency, wherein the device further includes means for scanning the region to be probed and a reference region with an image acquisition frequency for images recorded by means for measuring the variations in the phase of the light beam above the cutoff frequency, and in combination with the rest of the limitations of the above claim.

As to claim 9, the prior art of record, taken either alone or in combination, fails to disclose or render obvious a method of noninvasively detecting the properties of a medium by interferometry, the method comprising, among other essential steps, servocontrolling respective path lengths of a reference and probe beam in an interferometer using means for performing photodetection; and acquiring images corresponding to a measurement of the phase shift at various points in a region to be probed with the photodetection means, at a signal sampling frequency above a cutoff frequency for servocontrolling the respective path lengths of the reference beam and probe beam, wherein the method further comprises the step of scanning the region to be probed and a reference region with the probe beam at an image acquisition frequency for images recorded by means for measuring the variations in the phase of the light beam above the cutoff frequency, and in combination with the rest of the limitations of the above claim

These claims are also allowable in view of the terminal disclaimer regarding US Pat. 7,450,237 as indicated above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Application/Control Number: 10/568,250

Art Unit: 2877

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL A. LYONS whose telephone number is (571)272-2420. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley can be reached on 571-272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael A. Lyons/ Primary Examiner, Art Unit 2877 December 15, 2009